

# In-Vitro Diagnostic Substance Manufacturing: 2002

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## 2002 Economic Census

*Manufacturing*

Industry Series



U S C E N S U S B U R E A U

*Helping You Make Informed Decisions*

U.S. Department of Commerce  
Economics and Statistics Administration  
U.S. CENSUS BUREAU



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-- Not applicable for this report.

**Table 1. Historical Statistics for the Industry: 2002 and Earlier Years**

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year <sup>1</sup>	Com- panies <sup>2</sup>	All estab- lish- ments <sup>3</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)	
			Number <sup>4</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)					
325413, In-vitro diagnostic substance manufacturing .....	2002..	196	236	26 838	1 509 107	10 185	18 531	454 337	5 415 671	1 835 660	7 296 122	'277 470
	2001..	N	N	40 960	2 494 923	15 695	30 445	753 581	7 895 579	3 216 852	11 026 490	770 392
	2000..	N	N	40 162	2 364 696	15 441	30 772	705 172	7 366 848	3 019 205	10 351 341	661 322
	1999..	N	N	40 633	2 352 133	14 870	29 170	640 520	7 044 288	2 656 134	9 567 491	707 049
	1998..	N	N	40 790	2 292 512	14 194	27 889	600 697	6 287 535	2 460 086	8 912 869	623 413
	1997..	203	228	38 485	2 051 030	13 626	26 352	579 439	6 253 818	2 435 838	8 682 377	706 684

<sup>1</sup>Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

<sup>2</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>3</sup>Includes establishments with payroll at any time during the year.

<sup>4</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 2. Industry Statistics for Selected States: 2002**

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
<b>325413, In-vitro diagnostic substance manufacturing</b>												
United States .....	—	236	132	26 838	1 509 107	10 185	18 531	454 337	5 415 671	1 835 660	7 296 122	'277 470
California .....	—	67	45	7 701	423 415	3 250	6 035	132 832	1 239 434	361 526	1 595 613	'110 099
Florida .....	3	5	4	449	23 780	183	320	7 275	71 437	29 995	99 733	'4 528
Maine .....	8	7	4	1 294	56 256	717	1 147	28 147	91 378	31 624	124 369	'6 973
Massachusetts .....	2	11	10	1 976	100 643	775	1 592	25 518	367 204	73 465	459 283	'20 753
Minnesota .....	—	6	3	292	15 556	133	252	6 236	82 805	45 871	125 106	'3 138
New York .....	1	9	6	1 774	115 089	584	1 019	24 454	453 344	114 294	573 600	'24 022
Texas .....	—	13	8	553	26 739	327	469	12 665	79 256	57 229	137 852	'2 477
Wisconsin .....	3	7	4	231	10 142	97	226	3 713	37 168	10 603	45 118	'1 050

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

# Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
<b>325413, In-vitro diagnostic substance manufacturing</b>	
Companies <sup>1</sup> .....	number.. 196
All establishments <sup>2</sup> .....	number.. 236
Establishments with 1 to 19 employees .....	number.. 104
Establishments with 20 to 99 employees .....	number.. 80
Establishments with 100 employees or more .....	number.. 52
All employees <sup>3</sup> .....	number.. 26 838
Total compensation .....	\$1,000.. 1 810 703
Annual payroll .....	\$1,000.. 1 509 107
Total fringe benefits .....	\$1,000.. 301 596
Production workers, average for year .....	number.. 10 185
Production workers on March 12 .....	number.. 10 042
Production workers on May 12 .....	number.. 10 274
Production workers on August 12 .....	number.. 10 284
Production workers on November 12 .....	number.. 10 117
Production worker hours .....	\$1,000.. 18 531
Production worker wages .....	\$1,000.. 454 337
Total cost of materials .....	\$1,000.. 1 835 660
Materials, parts, containers, packaging, etc., used .....	\$1,000.. 1 577 773
Resales .....	\$1,000.. 158 099
Purchased fuels .....	\$1,000.. 6 905
Purchased electricity .....	\$1,000.. 62 909
Contract work .....	\$1,000.. 29 974
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 1 101 272
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. D
Total value of shipments .....	\$1,000.. 7 296 122
Primary products value of shipments .....	\$1,000.. 5 835 503
Secondary products value of shipments .....	\$1,000.. 323 933
Total miscellaneous receipts .....	\$1,000.. 1 136 686
Value of resales .....	\$1,000.. D
Contract receipts .....	\$1,000.. D
Other miscellaneous receipts .....	\$1,000.. 110 842
Primary products specialization ratio .....	percent.. 95
Value of primary products shipments made in all industries .....	\$1,000.. 7 962 386
Value of primary products shipments made in this industry .....	\$1,000.. 5 835 503
Value of primary products shipments made in other industries .....	\$1,000.. 2 126 883
Coverage ratio .....	percent.. 73
Value added .....	\$1,000.. 5 415 671
Total inventories, beginning of year .....	\$1,000.. 1 153 954
Finished goods inventories .....	\$1,000.. 534 649
Work-in-process inventories .....	\$1,000.. 255 011
Materials and supplies inventories .....	\$1,000.. 364 294
Total inventories, end of year .....	\$1,000.. 1 130 153
Finished goods inventories .....	\$1,000.. 504 116
Work-in-process inventories .....	\$1,000.. 240 753
Materials and supplies inventories .....	\$1,000.. 385 284
Gross value of depreciable assets (acquisition costs) at beginning of year .....	\$1,000.. '2 620 527
Total capital expenditures (new and used) .....	\$1,000.. '277 470
Buildings and other structures (new and used) .....	\$1,000.. '44 131
Machinery and equipment (new and used) .....	\$1,000.. '233 339
Automobiles, trucks, etc., for highway use .....	\$1,000.. '2 225
Computers and peripheral data processing equipment .....	\$1,000.. '40 965
All other expenditures for machinery and equipment .....	\$1,000.. '190 149
Total retirements .....	\$1,000.. '177 738
Gross value of depreciable assets at end of year .....	\$1,000.. '2 720 259
Depreciation charges during year .....	\$1,000.. '226 321
Total rental payments .....	\$1,000.. 89 474
Buildings and other structures .....	\$1,000.. 65 969
Machinery and equipment .....	\$1,000.. 23 505
Total other expenses <sup>4</sup> .....	\$1,000.. 690 555
Response coverage ratio <sup>5</sup> .....	percent.. 81
Repair and maintenance services of buildings and/or machinery <sup>4</sup> .....	\$1,000.. 34 020
Communications services <sup>4</sup> .....	\$1,000.. 24 703
Legal services <sup>4</sup> .....	\$1,000.. 26 452
Accounting, auditing, and bookkeeping services <sup>4</sup> .....	\$1,000.. 4 838
Advertising and promotional services <sup>4</sup> .....	\$1,000.. 35 547
Expensed computer hardware and supplies and purchased computer services <sup>4</sup> .....	\$1,000.. 17 132
Refuse removal (including hazardous waste) services <sup>4</sup> .....	\$1,000.. 4 846
Management consulting and administrative services <sup>4</sup> .....	\$1,000.. 125 067
Taxes and license fees <sup>4</sup> .....	\$1,000.. 14 618
All other expenses <sup>4</sup> .....	\$1,000.. 403 332

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Based on Annual Survey of Manufactures (ASM) sample data.

<sup>5</sup>A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 4. Industry Statistics by Employment Size: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E <sup>1</sup>	All establishments <sup>2</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
325413, In-vitro diagnostic substance manufacturing											
All establishments .....	—	236	26 838	1 509 107	10 185	18 531	454 337	5 415 671	1 835 660	7 296 122	'277 470
Establishments with—											
1 to 4 employees .....	8	63	138	6 916	64	108	2 474	29 085	10 945	39 607	'1 199
5 to 9 employees .....	7	23	150	9 122	55	103	2 745	34 203	12 800	46 505	'1 727
10 to 19 employees .....	6	18	249	14 360	107	173	4 796	36 428	12 741	49 195	'1 706
20 to 49 employees .....	3	45	g	D	D	D	D	D	D	D	D
50 to 99 employees .....	—	35	2 382	112 298	1 169	2 284	39 638	356 901	141 602	488 081	'22 921
100 to 249 employees .....	1	28	4 678	260 365	2 010	3 646	86 141	685 716	323 145	1 023 372	'38 468
250 to 499 employees .....	—	11	4 002	201 807	1 499	2 683	68 095	642 738	183 073	806 392	'53 234
500 to 999 employees .....	—	7	5 043	233 404	1 945	4 263	77 457	1 179 943	482 919	1 732 757	'58 193
1,000 to 2,499 employees .....	—	5	6 247	386 930	2 094	3 328	100 825	1 001 942	192 463	1 181 223	'46 881
2,500 employees or more .....	—	1	h	D	D	D	D	D	D	D	D
Administrative records <sup>4</sup> .....	9	67	227	13 963	99	181	4 428	36 680	14 002	50 682	'2 807

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 5. Industry Statistics by Primary Product Class Specialization: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments <sup>1</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Hours (1,000)	Wages (\$1,000)				
325413	In-vitro diagnostic substance manufacturing .....	236	26 838	1 509 107	10 185	18 531	454 337	5 415 671	1 835 660	7 296 122	'277 470
3254130	In-vitro diagnostic substances .....	236	26 838	1 509 107	10 185	18 531	454 337	5 415 671	1 835 660	7 296 122	'277 470

<sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. **Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
325413	In-vitro diagnostic substances manufacturing .....	2002.. N	X	X	7 962 386
	1997.. N	N	X	X	6 483 326
3254130	In-vitro diagnostic substances .....	2002.. N	X	X	7 962 386
	1997.. N	N	X	X	6 483 326
32541301	In-vitro diagnostic substances (clinical chemistry) reagents, including toxicology .....	2002.. N	X	X	5 707 803
	1997.. N	N	X	X	3 936 799
3254130111	In vitro diagnostic substances (clinical chemistry) reagents, including toxicology .....	2002.. 80	X	X	5 707 803
	1997.. 59	59	X	X	3 936 799
32541302	In-vitro diagnostic substances (clinical chemistry) standards and controls, including toxicology .....	2002.. N	X	X	672 801
	1997.. N	N	X	X	381 239
3254130221	In-vitro diagnostic substances (clinical chemistry) standards and controls, including toxicology .....	2002.. 27	X	X	672 801
	1997.. 29	29	X	X	381 239
32541303	In-vitro diagnostic substances, blood bank, hematology and coagulation products .....	2002.. N	X	X	488 852
	1997.. N	N	X	X	525 654
3254130331	In- vitro diagnostic substances, blood bank products .....	2002.. 12	X	X	290 191
	1997.. 8	8	X	X	297 295
3254130341	In-vitro diagnostic substances, hematology products .....	2002.. 8	X	X	77 356
	1997.. 12	12	X	X	67 145
3254130351	In-vitro diagnostic substances, coagulation products .....	2002.. 10	X	X	121 305
	1997.. 9	9	X	X	161 214
32541304	In-vitro diagnosticsubstances, microbiology, virology, serology, cytology, and histology products .....	2002.. N	X	X	336 990
	1997.. N	N	X	X	428 157
3254130461	In-vitro diagnosticsubstances, microbiology, virology, serology, cytology, and histology products .....	2002.. 28	X	X	336 990
	1997.. 37	37	X	X	428 157
32541305	In-vitro diagnostic substances, culture media .....	2002.. N	X	X	40 439
	1997.. N	N	X	X	365 721
3254130571	In-vitro diagnostic substances, culture media .....	2002.. 13	X	X	40 439
	1997.. 24	24	X	X	365 721
32541306	In-vitro diagnostic substances, other .....	2002.. N	X	X	513 799
	1997.. N	N	X	X	631 159
3254130691	In vitro diagnostic substances, other .....	2002.. 35	X	X	513 799
	1997.. 44	44	X	X	631 159
3254130Y	In vitro diagnostic substances, nsk, total .....	2002.. N	X	X	201 702
	1997.. N	N	X	X	214 597
3254130YWW	In vitro diagnostic substances, nsk, for nonadministrative-record establishments .....	2002.. N	X	X	154 221
	1997.. N	N	X	X	156 190
3254130YWY	In vitro diagnostic substances, nsk, for administrative-record establishments .....	2002.. N	X	X	47 481
	1997.. N	N	X	X	58 407

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.



Table 6b. **Product Class Shipments for Selected States: 2002 and 1997**

[Not applicable for this report.]

**Table 7. Materials Consumed by Kind: 2002 and 1997**

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
325413	In-vitro diagnostic substance manufacturing		
00900001	Total materials .....	X	1 577 773
	.....2002..	X	2 037 179
	.....1997..	X	9 456
32541113	Antibiotics (bulk), for human and veterinary use .....	X	4 180
	.....2002..	X	366
	.....1997..	X	D
31100001	Processed food and kindred products (including lactose, meat packing plant products, yeast, etc.) .....	X	D
	.....2002..	X	37 286
	.....1997..	X	43 797
32541000	Blood derivatives and extenders .....	X	101 058
	.....2002..	X	83 332
	.....1997..	X	110 966
32599807	Gelatin (pharmaceutical grade) and gelatin capsules .....	X	D
	.....2002..	X	D
	.....1997..	X	2 513
32510036	Alcohols, excluding ethyl (100 percent basis) .....	X	N
	.....2002..	X	D
	.....1997..	X	47 566
32519201	Cyclic crudes and intermediates (including organic colors) .....	X	
	.....2002..	X	33 115
	.....1997..	X	133 389
32510031	Other synthetic organic chemicals (including halogenated hydrocarbons) .....	X	
	.....2002..	X	64 550
	.....1997..	X	617 030
32610015	Fabricated plastics products, including plastics closures, film, and packaging items (excluding containers) .....	X	1 434
	.....2002..	X	16 698
	.....1997..	X	
33211500	Metal closures and crowns for containers .....	X	41 097
	.....2002..	X	36 848
	.....1997..	X	24 600
32310003	Labels, coupons, instructions, and other printed material .....	X	47 380
	.....2002..	X	32 504
	.....1997..	X	43 205
32610029	Plastics containers .....	X	
	.....2002..	X	
	.....1997..	X	
32721301	Glass containers .....	X	
	.....2002..	X	
	.....1997..	X	
33240000	Metal containers .....	X	D
	.....2002..	X	1 698
	.....1997..	X	41 505
32221001	Paperboard containers, boxes, and corrugated paperboard .....	X	66 808
	.....2002..	X	1 085 254
	.....1997..	X	662 080
00970099	All other materials and components, parts, containers, and supplies .....	X	107 289
	.....2002..	X	86 505
	.....1997..	X	
00971000	Materials, ingredients, containers, and supplies, nsk .....	X	
	.....2002..	X	
	.....1997..	X	

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.